

Abstract of the Disclosure

Methods and apparatuses for coating surface of medical devices using coating heads are disclosed. In one embodiment, the invention includes a coating method using a coating head, wherein the coating head comprises at least one outlet orifice from which flows a coating material, to deposit at least one layer of coating material dispelled through the outlet orifice onto the surface of the medical device. In another embodiment, a slide coating head is used to deposit multiple layers of superposed coating materials. These methods are used to apply one or more coating materials, simultaneously or in sequence. In certain embodiments of the invention, the coating materials include therapeutic agents, polymers, sugars, waxes, or fats.